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## WASHINGTON COUNTY

### (Washington County Water Service Area Map)

- Estimated 1999 population of 10,700--55% on public water
- Estimated 2020 population of 11,400--69% on public water
- 100 miles of water lines, with plans for 110 additional miles
- Estimated funding needs for public water 2000-2005--\$5,500,000
- Estimated funding needs for public water 2006-2020--\$0

Washington County had an estimated population of 10,730 (4,200 households) in 1999 with a projected population of 11,400 (5,000 households) in 2020. Public water is provided to 2,480 customers, or about 55 percent of the county's residents. In areas of the county not served by public water, about 1/4 the households rely on private domestic wells and 3/4 the households rely on other sources. About 700 customers will be added to public water service through new line extensions in 2000-2020.

### *Estimated Costs - Proposed Projects, 2000-2005*

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
WASHINGTON								
Springfield Water & Sewer Com.	110	700	3400				2,100	5,500
TOTAL	110	700	3,400				2,100	5,500

## PUBLIC WATER SYSTEMS

The residents of Washington County are presently provided water by The Springfield Water & Sewer Commission.

### **SPRINGFIELD WATER WORKS**

PWSID:..... 1150415  
System Type:..... COMMUNITY  
Owner Type:..... MUNICIPAL  
Surface Source:..... CITY RESERVOIR  
Purchase Source:  
Well Source:  
Sells Water to:  
Treatment Plant Capacity (MGD):..... 2.00  
Percent Daily Average Production:..... 46.00  
Total Tank Storage Capacity (gallons):..... 750,000.00  
Total Service Connections: ..... 2,480.00  
Number of Employees:..... 13.00

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# WATER SERVICE AREAS

## WASHINGTON COUNTY

### Kentucky

Prepared By:  
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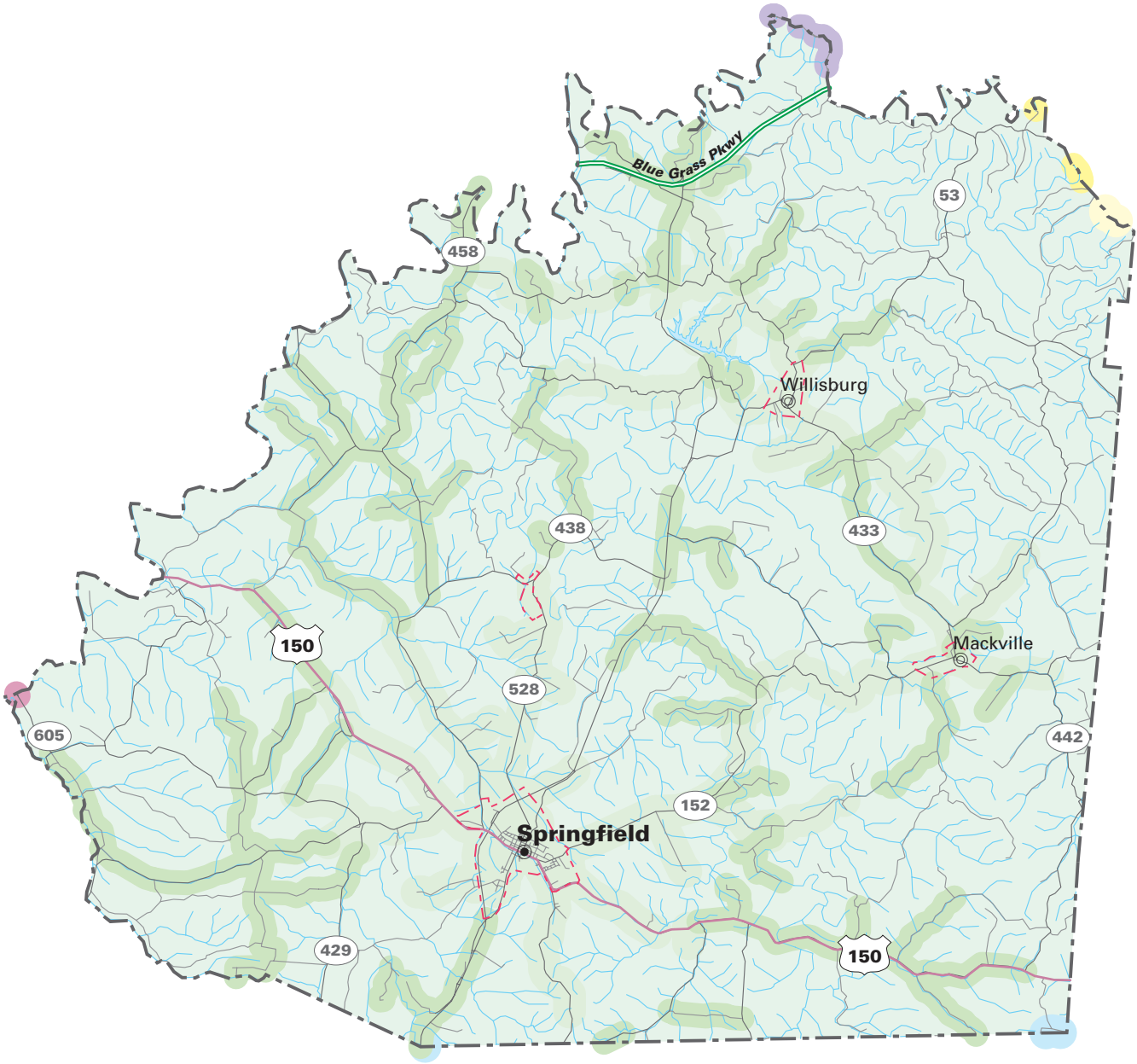
Bob Arnold, Chairman  
Lawrence Wetherby, Executive Director

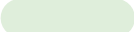



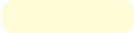
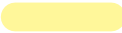
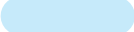



Final GIS & Cartographic Operations By:  
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Data Collection & GIS Input By:  
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LIMITATION OF LIABILITY: The Water Resource Development Commission has no reason to believe that there are any inaccuracies or defects in information incorporated in this work and make no representations of any kind, including, but not limited to, the warranties of merchantability or fitness for a particular use, nor any such warranties to be implied, with respect to the information or data furnished herein.



WATER SERVICE STATUS BY OWNER		
EXISTING SERVICE AREA	PROPOSED SERVICE AREA	
		SPRINGFIELD WATER WORKS
		SOUTH ANDERSON WATER DISTRICT
		NORTH MERCER WATER DISTRICT
		MARION COUNTY WATER DISTRICT
		BARDSTOWN MUNICIPAL WATER DEPARTMENT

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Treatment Operator Class: .....	2D
Distribution Operator Class:.....	3A
Customer Rate for 1,000 Gallons:.....	5.34
O/M costs 1997:.....	Not available
O/M costs per Service Connection: .....	Not available
Net Revenue 1997: .....	Not available
Total Water Produced 1997 (gallons):.....	Not available
Water Sold 1997 (gallons):.....	Not available
Unaccounted-for Water 1997 (%): .....	Not available

The Springfield Water and Sewer Commission gets its water from three primary sources: Willisburg Lake, City Reservoir and Allens Run. According to the Washington County Water Supply Plan Willisburg Lake, City Reservoir and Allens Run have an adequate supply of water to support any future needs. The district currently services 2,480 customers in Washington County. The Springfield water treatment plant has a production capacity of approximately 2.0 million gallons per day. On the average, the plant produces approximately 805,000 gallons per day. The plant operates at approximately 40% of capacity. The Water and Sewer Commission operates four storage tanks with a combined storage capacity of 750,000. The proposed project described below also includes five 100,000-gallon storage tanks to be situated at different locations throughout the service area. These proposed storage tanks would increase capacity to 1.25 million gallons. The calculated charge for 4,000 gallons of treated water (residential usage) is currently \$13.65 within the city limits of Springfield and \$29.01 outside of the City which, when compared to the other water districts within Lincoln Trail ADD, is considered reasonable.

After the three proposed projects are completed, there is nowhere remaining for the Springfield Water and Sewer Commission to expand. It is fair to say that once these projects are complete, Washington County will be roughly 100% serviced by water.

Currently there are 2,480 customers. After completion of the above referenced projects there will be approximately 3,680 total customers in the Springfield Water and Sewer Commission Service Area. The Water and Sewer Commission Manager does not believe there are any areas of the county that are not practical for public waters service.

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## **PRIVATE DOMESTIC SYSTEMS**

About 4,800 people in Washington County rely on private domestic water supplies: 1,200 on wells, and 3,600 on other sources.

Ground-water resources in Washington County are limited. Wells located in the larger valley bottoms throughout the county will produce enough water for a domestic supply except during dry weather. In the upland areas of Washington County, which encompasses approximately 85% of the county, most drilled wells will not produce enough water for a dependable domestic supply except along drainage lines that may produce enough water except during dry weather.

Throughout the county ground water is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet.

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